

Amendments to the Claims

Please amend the claims as follows:

1-19. (Canceled)

20. (Currently Amended) An apparatus for signal processing, comprising:

a signal reception unit for receiving at least two data blocks via at least one of a plurality of antennas, each of the at least two data blocks having an attached with cyclical ~~cyclic~~ redundancy check (CRC)-attached to each data block via at least one of a plurality of antennas, wherein each of the at least two data blocks has been transmitted via each of a plurality of antennas at a transmitting side;

a channel estimation unit for checking the CRC from each of the received at least two CRC-attached data ~~blocks~~ block; and

a feedback signal transmission unit for transmitting a positive acknowledgement (ACK) or a negative acknowledgement (NACK) for each of the at least two data block, ~~blocks, the ACK or NACK~~ based on the CRC check, ~~per each antenna,~~

wherein the CRC is independently attached to each of the at least two data blocks.

21. (Currently Amended) The apparatus of claim 20, wherein the signal reception unit is used to receive dummy bits from ~~[[that]]~~ at least one of the plurality of antennas ~~antenna~~ not used for transmitting the CRC-attached data block.

22-31. (Canceled)

32. (Currently Amended) A method of receiving data blocks in a multiple input, multiple output (MIMO) wireless communication system, the method comprising:

receiving at least ~~one~~two data blocks with a cyclic redundancy check (CRC) attached via at least one of a plurality of antennas, wherein each of the at least two data blocks has been transmitted via each of a plurality of antennas at a transmitting side;

checking the CRC from each of the at least two received CRC-attached data blocks; and

transmitting a positive acknowledgement (ACK) or a negative acknowledgement (NACK) for each of the at least two data blocks, based on the CRC check,

wherein the CRC is independently attached to each of the at least ~~one~~two data blocks.

33. (Currently Amended) The method of claim 32, wherein any of the plurality of at least one of multiple antennas not used for transmitting a CRC-attached data block is used to receive dummy bits ~~from that at least one antenna not used for transmitting the CRC-attached data block.~~

34. (Previously Presented) The method of claim 32, wherein the CRC check is performed to acquire channel quality information.

35. (Currently Amended) The method of claim 34, wherein the channel quality information is based on a quality of the channel through which the at least one CRC-attached data block is transmitted.

36. (Previously Presented) The method of claim 34, wherein the ACK is generated if the channel quality information is good.

37. (Previously Presented) The method of claim 34, wherein the NACK is generated if the channel quality information is bad.